

CANDIDATE'S NAME: _____

Stream: _____ Signature _____

545/2

CHEMISTRY

PRACTICAL

(2Hours)

CHEMISTRY EXAMINATION

S.4 CHEMISTRY PRACTICAL

INSTRUCTIONS:

Make and write your investigation in the spaces provided in this paper.

ITEM

Sodium thiosulphate is an active ingredient used during the production of cosmetics for hair care products to remove any chlorine and bromine from hair that if present would increase damage and colour fading of hair among ladies. There is a cosmetic processing plant being established in your area, the LC1 and the people in this community are curious about the safety and quality of their cosmetic products, and they approach you for advice on how the rate of reaction is affected by concentration.

You are provided with the following:

BA1 which is sodium thiosulphate solution

BA2 which is hydrochloric acid solution.

BA3 which is distilled water

Common laboratory apparatus to be used

Task:

Design and carryout an experiment to determine the effect of concentration on solution.

Expected response:

a) Aim of the experiment:

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b) Hypothesis of the experiment

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d) Variables of the experiment:

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e) List of the apparatus

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f) Risk and its mitigation

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g) Procedure

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h) Data collection and analysis

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i) Conclusion of the experiment

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j) Data presentation on a graph

